

CLAIMS

WHAT IS CLAIMED IS:

1. A system for dispensing flowable materials comprising a flexible package and a receiver apparatus for said package, said package having at least one handle and a hollow interior in which the flowable material is located and including at least one wall portion formed of a penetratable material, said receiver apparatus comprising an opening for receipt of said package, a penetrating portion and an outlet, said at least one wall portion of said package being arranged to be penetrated by said penetrating portion of said receiver apparatus after said package is introduced into said opening, whereupon the flowable material is enabled to flow out of said package for dispensing out of said outlet of said receiver apparatus.

15 2. The system of Claim 1 wherein said flexible package includes an outer carton.

3. The system of Claim 2 wherein said at least one handle is provided in said outer carton.

20 4. The system of Claim 2 wherein said outer carton includes an openable portion to expose said at least one wall portion of said package.

5. The system of Claim 4 wherein said openable portion is formed by a perforated line in said carton.

25 6. The system of Claim 4 wherein said at least one handle is provided in said outer carton.

7. The system of Claim 1 wherein said package comprises plural sidewalls, at least two of which taper downward and wherein said receiver apparatus includes a cavity shaped to accommodate said tapering sidewalls of said package.

30 8. The system of Claim 1 wherein said package has a base wall and wherein said at least one wall portion of said package is located at said base wall and wherein said receiver apparatus is a hollow member having a cavity in communication with said opening said package being arranged to be placed and moved through said opening, said cavity being disposed below said opening for receipt of the flowable material from said package,

said penetrating portion of said receiver apparatus being located below said opening to engage said base wall of said package when said package is moved through said opening to form an aperture in said base wall, whereupon said flowable material can flow into said cavity.

5           9. The system of Claim 1 wherein said receiver apparatus is a hollow member having an interior chamber for receipt of said package and a base in which said outlet is located, said penetrating portion of said receiver apparatus being located  
10          adjacent said outlet.

15          10. A package for use in a system for dispensing a flowable material, the system including an opening, at least a bottom portion of which is of a regular geometric shape and into which said package is arranged to be disposed, said package being arranged to be filled with a flowable material and comprising a front panel having a linear bottom edge, a rear panel having a linear bottom edge and a gusseted bottom panel interconnecting said bottom edges of said front panel and said rear panel, each of said panels being formed of a flexible material and having a first linear, side edge and a second linear side edge, said first and second linear side edges being disposed opposite and parallel to each other, said gusseted bottom panel including a front gusset section and a rear gusset section, said front gusset section being connected to said front panel along said bottom edge of said front panel, said rear gusset section being connected to said rear panel along said bottom edge of said rear panel, said front and rear gusset sections being connected together along a central fold line extending parallel to said bottom edges of said front and rear panels, said front gusset section being secured to said front panel adjacent said first linear side edge of said front panel by a first angled linear seal line extending at an acute angle to said first linear side edge of said front panel, said rear gusset section being secured to said rear panel adjacent said first linear side edge of said rear panel by a second angled linear seal line extending at an acute angle to said first linear side edge of said rear panel,

said front gusset section being secured to said front panel adjacent said second linear side edge of said front panel by a third angled linear seal line extending at an acute angle to said second linear side edge of said front panel, said rear 5 gusset section being secured to said rear panel adjacent said second linear side edge of said rear panel by a fourth angled linear seal line extending at an acute angle to said second linear side edge of said rear panel, said front panel and said rear panel being secured to each other along said first linear 10 side edge and along said second linear side edge, said package being arranged to be filled with a flowable material and when so filled said package forms a four-sided, regular geometrically shaped bottom portion, said bottom portion of said filled package having a generally planar base wall, a front wall portion, a rear wall portion, a first sidewall portion and a 15 second sidewall portion, said front wall portion projecting upward from said base wall along said linear bottom edge of said front panel, said rear wall portion projecting upward from said base wall along said linear bottom edge of said rear panel, said first sidewall projecting upward from said base wall between said front and rear wall portions on one side of said package, said second sidewall projecting upward from said base wall portion between said front and rear wall portions on the opposite side of said package, said generally regular geometric 20 shaped bottom portion of said package generally corresponding to the shape of the opening of the system, said package comprising at least one handle to facilitate the moving of said pacakge, said package being arranged to be introduced into the opening so that said base wall of said package is penetrated by a portion 25 of the system to form an aperture therein to enable the flowable material within said package to flow out of said package through said aperture for dispensing, without any portion of said package interfering with the free flow of the flowable material 30 out of said package.

11. The package of Claim 10 wherein at least a portion of the periphery of said base wall is constructed to control the propagation of the cut in said package.

5 12. The package of Claim 11 wherein said at least a portion of the periphery of said base wall comprises portions contiguous with said front and rear wall portions.

13. The package of Claim 11 wherein said portions of said periphery of said base wall are corrugated.

10 14. The package of Claim 10 wherein each of said angled linear seal lines extends at approximately 45 degrees to its associated linear side edge.

15. The package of Claim 10 wherein said package includes an outer carton in which said flexible package is located.

15 16. The package of Claim 15 wherein said at least one handle is provided in said outer carton.

17. The system of Claim 15 wherein said outer carton includes an openable portion to expose said at least one wall portion of said package.

20 18. The system of Claim 17 wherein said openable portion is formed by a perforated line in said carton.

19. The package of Claim 18 wherein said at least one handle is provided in said outer carton.